

River and station	Flood stage	Above flood stages—dates		Crest	
		From—	To—	Stage	Date
MISSISSIPPI DRAINAGE—continued					
Beaver: Beaver Falls, Pa.-----	11	14	17	13.1	1927 Dec. 14.
Shenango: Sharon, Pa.-----	9	1	3	12.3	Dec. 2.
		14	17	10.8	Dec. 14.
Muskingum:					
McConnellsville, Ohio.-----	22	15	19	24.3	Dec. 17.
Beverly, Ohio.-----	25	16	16	25.1	Dec. 16.
Marietta, Ohio.-----	28	15	19	34.5	Dec. 17.
Tuscarawas:					
Gnadenhutten, Ohio.-----	9	(?)	5	14.2	Dec. 2-3.
		13	20	15.4	Dec. 17.
Coshocton, Ohio.-----	8	1	4	14.7	Dec. 2.
		14	19	14.4	Dec. 16.
Walhonding: Walhonding, Ohio.-----	8		3	14.1	Dec. 1.
Scioto:					
Larue, Ohio.-----	11	1	2	14.1	Do.
		14	15	14.4	Dec. 14.
Prospect, Ohio.-----	10	1	3	12.9	Dec. 2.
		15	17	12.7	Dec. 15.
Bellpoint, Ohio.-----	9	1	1	9.7	Dec. 1.
Circleville, Ohio.-----	10	2	3	13.5	Dec. 3.
		14	17	14.0	Dec. 15.
Chillicothe, Ohio.-----	16	3	4	17.6	Dec. 3.
		15	17	19.1	Dec. 16.
Olentangy: Delaware, Ohio.-----	9		1	12.9	Dec. 1.
Little Miami: Kings Mills, Ohio.-----	17	14	14	20.7	Dec. 14.
Wabash:					
Lafayette, Ind.-----	11	(?)	10	21.9	Dec. 2.
		14	18	18.8	Dec. 16.
Covington, Ind.-----	16	(?)	20	25.0	Dec. 4.
Terre Haute, Ind.-----	16	2	21	21.2	Dec. 5.
Vincennes, Ind.-----	14	6	25	19.1	Dec. 9.
Mount Carmel, Ill.-----	16	3	25	22.1	Dec. 9, 17.
Tippecanoe: Norway, Ind.-----	6	(?)	26	6.5	Dec. 1, 2, 7,
		29	29	6.1	14, 16, 29.
White: Decker, Ind.-----	18	5	10	19.3	Dec. 5-9.
		15	23	20.9	Dec. 21-22.
White, East Fork:					
Seymour, Ind.-----	10	1	3	12.5	Dec. 2.
		15	15	11.5	Dec. 15.
Williams, Ind.-----	10	18	18	10.5	Dec. 18.
Shoals, Ind.-----	20	6	6	20.4	Dec. 6.
		18	20	21.2	Dec. 19.
White, West Fork:					
Eliston, Ind.-----	19	3	4	19.7	Dec. 4.
		15	17	21.0	Dec. 17.
Edwardsport, Ind.-----	15	2	6	17.0	Dec. 5.
		15	20	17.5	Dec. 18-19.
Elk: Fayetteville, Tenn.-----	14	31	31	16.3	Dec. 31.
Illinois:					
Morris, Ill.-----	13	(?)	5	14.7	Dec. 1.
		8	17	15.4	Dec. 15-16.
Peru, Ill.-----	14	(?)	(?)	20.0	Dec. 18-19.
Henry, Ill.-----	10	(?)	(?)	14.4	Dec. 17-18.
Peoria, Ill.-----	18	2	(?)	20.9	Dec. 18-20.
Havana, Ill.-----	14	1	(?)	18.1	Dec. 19.
Beardstown, Ill.-----	14	2	(?)	19.3	Dec. 16-18.
Pearl, Ill.-----	12	4	(?)	15.8	Dec. 20.
Meramec:					
Pacific, Mo.-----	11	1	4	15.5	Dec. 3.
Valley Park, Mo.-----	14	1	4	16.8	Do.
		15	17	16.9	Dec. 16.
Bourbeuse: Union, Mo.-----	12	2	3	13.9	Dec. 3.
St. Francis: St. Francis, Ark.-----	17	17	28	26.1	Dec. 19.
Arkansas:					
Dardanelle, Ark.-----	20	14	14	23.8	Dec. 14.
Morrilton, Ark.-----	20	14	14	20.0	Do.
Yancopin, Ark.-----	29	17	17	29.1	Dec. 17.
Petit Jean: Danville, Ark.-----	20	15	17	22.7	Dec. 16.
White:					
Calico Rock, Ark.-----	18	14	17	39.6	Dec. 14.
Batesville, Ark.-----	23	14	18	37.6	Dec. 15.
Newport, Ark.-----	26	16	21	29.7	Dec. 18.
Georgetown, Ark.-----	22	19	29	25.4	Dec. 22.
DeValls Bluff, Ark.-----	24	22	29	25.7	Dec. 24.
Buffalo: Gilbert, Ark.-----	30	14	14	38.0	Dec. 14.
Black:					
Leeper, Mo.-----	11	14	14	15.5	Do.
Williamsville, Mo.-----	11	14	15	16.0	Do.
Poplar Bluff, Mo.-----	14	14	17	18.1	Dec. 15.
Corning, Ark.-----	11	15	28	15.1	Dec. 19.
		31	31	11.0	Dec. 31.
Black Rock, Ark.-----	14	14	(?)	25.3	Dec. 15.
WEST GULF DRAINAGE					
Trinity: Trinidad, Tex.-----	28	19	24	28.5	Dec. 21-22.
PACIFIC DRAINAGE					
Columbia: Vancouver, Wash.-----	15	(?)	2	16.3	Nov. 29.
Willamette:					
Harrisburg, Oreg.-----	7	(?)	4		Do.
Portland, Oreg.-----	15	(?)	3	17.5	Do.
Willamette, Coast Fork: Saginaw, Oreg.-----	5	13	15	5.3	Dec. 14-15.
		30	(?)	5.4	Dec. 31.

<sup>1</sup> Continued from last month.

<sup>2</sup> Continued at end of month.

# MEAN LAKE LEVELS DURING DECEMBER, 1927

By UNITED STATES LAKE SURVEY

[Detroit, Mich., January 5, 1928]

The following data are reported in the Notice to Mariners of the above date:

Data	Lakes <sup>1</sup>			
	Superior	Michigan and Huron	Erie	Ontario
Mean level during December, 1927:				
Above mean sea level at New York.....	Feet 602.39	Feet 578.82	Feet 571.51	Feet 245.65
Above or below—				
Mean stage of November, 1927.....	-0.15	-0.09	+0.40	+0.80
Mean stage of December, 1926.....	+0.75	+0.57	+0.05	+0.23
Average stage for December, last 10 years.....	+0.52	-0.56	-0.02	+0.45
Highest recorded December stage.....	-0.74	-3.76	-2.02	-1.86
Lowest recorded December stage.....	+2.14	+1.28	+1.12	+2.22
Average departure (since 1860) of the December level from the November level.....	-0.27	-0.22	-0.08	-0.09

<sup>1</sup> Lake St. Clair's level: In December, 1927, 574.13 feet.

## EFFECT OF WEATHER ON CROPS AND FARMING OPERATIONS, DECEMBER, 1927

By J. B. KINCER

*General summary.*—The outstanding favorable feature of the weather during the first decade of December was the effective relief of the droughty conditions in the southeastern States. Generous to heavy rains there bountifully supplied the soil with needed moisture, which, together with the generally mild temperatures, brought a marked improvement to the agricultural situation. In the trans-Mississippi States cool weather brought frost nearly to the Gulf coast with more or less damage to tender vegetation. Early in the period farm work made good advance in the more eastern States and upper Ohio Valley, but toward its close frequent precipitation and severe wintry conditions over large areas of the country westward to the Rocky Mountains were unfavorable, with little farm work accomplished.

During the second decade frequent rains, followed by cold, windy, disagreeable weather in most sections east of the Mississippi River, made conditions generally unfavorable for outside operations and very little activity on farms was reported. Over the Central and Northern States to the westward the continued abnormally low temperatures and rather severe snowstorms in northern districts were also unfavorable for agricultural interests.

During the last decade in the more northern districts east of the Mississippi River generally ample sunshine, absence of appreciable precipitation, and the frozen ground enabled corn husking to make excellent advance, with much progress reported in other sections to the westward. The lack of adequate snow cover over Central States caused some apprehension during the cold weather. Much hog killing was done in southern areas. In a large part of the Northeast there was very little farm activity, but from the Great Lakes westward there was a revival of outdoor operations, attending the reaction to more favorable weather.

*Small grains.*—At the beginning of the month grain fields were mostly protected by a snow cover in the northeast as far south as the Potomac Valley, in the Lake region, and in most sections between that region and the Rocky Mountains; the latter part of the first